

NYCOA 5113 HS

13% Glass-Fiber Reinforced, Heat Stabilized, Impact Modified, Nylon 66 Resin.

NYCOA 5113 HS is a 13% glass fiber reinforced, heat stabilized, impact modified Nylon 66 resin used for injection molding.

NYCOA 5113 HS has been specifically formulated for improved ductility and impact strength vs standard grades of glass filled Nylon 66.

Typical applications include shoe sole plates, hardware items and automotive under the hood applications.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific gravity	D 792	-	1.22	-	1.22
Water Absorption, 24 hr	D 570	%	1.3	%	1.3
Linear Mold Shrinkage (Parallel)	D 955	%	0.7	%	0.7
Linear Mold Shrinkage (Normal)	D 955	%	1.2	%	1.2
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	118	-	118
Tensile Strength	D 638	psi	14,645	MPa	101
Elongation	D 638	%	4	%	4
Tensile Modulus	D 638	psi	669,900	MPa	4,620
Flexural Modulus	D 790	psi	519,100	MPa	3,580
Flexural Strength	D 790	psi	20,300	MPa	140
Notched Izod Impact	D 256	ft.lbs./in.	3.0	J/m	150
Thermal Properties					
Melting Temperature	D 789	°F	496	°C	258
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	480	°C	249
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	450	°C	232

All test specimens tested in "dry" state – less than 0.3% moisture.

Izod Impact – ½" x ¼" bars.

All tensile properties obtained at a testing speed of 2 in./min.

The information contained herein is based upon data believed to be thoroughly reliable. However, due to the many uses to which this material is put, and the different equipment and techniques used, we cannot guarantee results in specific instances. Nor should any statement herein be construed as a recommendation to use our products in the infringement of a patent.